

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES INSTALLATION OF APS/CPS TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 119 (GREAT SENECA HIGHWAY) AND CLOPPER MILL DRIVE/RICHTER FARM ROAD IN MONTGOMERY COUNTY. MD 119 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR BOTH THE NORTH AND SOUTH APPROACHES OF MD 119. MD 119 THRU MOVEMENTS WILL OPERATE CONCURRENTLY AND CLOPPER MILL DRIVE/RICHTER FARM ROAD THRU MOVEMENTS WILL ALSO RUN CONCURRENTLY. THERE ARE PEDESTRIAN PHASES FOR THE EAST AND WEST LEGS OF THE INTERSECTION CROSSING RICHTER FARM RD AND CLOPPERS MILL RD. THERE ARE ALTERNATE PEDESTRIAN PHASES FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION CROSSING MD 119.

EQUIPMENT LIST FOR CONTRACT NO. XY1515185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM	QUANTITY	UNIT	DESCRIPTION
900000	154	SF	SHEET ALUMINUM GROUND MOUNTED SIGN
	18	EA	S1-1 (30" x 30") GROUND MOUNTED
	9	EA	W16-7L (24" x 12") GROUND MOUNTED
	9	EA	W16-7R (24" x 12") GROUND MOUNTED
	1	EA	R4-7 (24" x 30") GROUND MOUNTED
900000	8	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	8	EA	R10-3(f) (9' x 15") POLE MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
504150	3.3	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3
520109	28	SY	3 INCH GRADED AGGREGATE BASE COURSE
585621	1920	LF	12 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS
585625	160	LF	24 INCH WHITE LEAD THERMOPLASTIC PAVEMENT MARKINGS
585700	1810	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LINES, ANY WIDTH
600000	245	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	85	LF	TYPE A CURB ANY HEIGHT OR DEPTH
634330	55	LF	STANDARD TYPE C COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
655105	1325	SF	5 INCH CONCRETE SIDEWALK
655120	115	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	28	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	28	SY	TURFGRASS ESTABLISHMENT
708220	28	SY	TURFGRASS SOD ESTABLISHMENT
800000	8	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT
800000	8	EA	5 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	155	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	162	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING
800000	270	LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 8 INCH
802501	155	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	1890	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

ALL EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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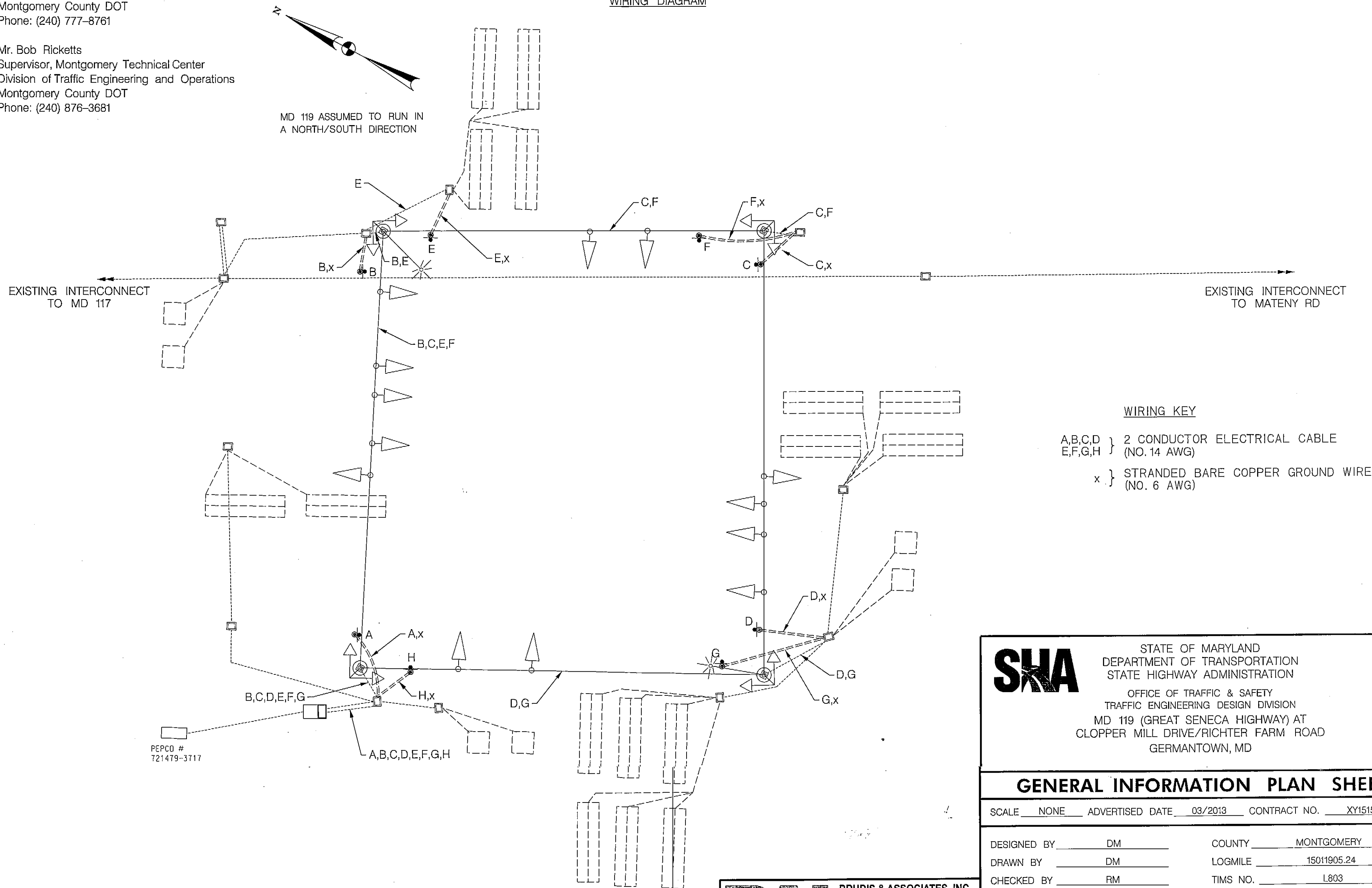
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PHASE CHART																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

PHASE 1 AND 5	←-G	←-G	←-G	R	R	←-G	←-G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5 OR 2 AND 6																				
PHASE 1 AND 6	←-G	←-G	←-G	G	G	←-R	←-R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
1 CHANGE	←-Y	←-Y	←-Y	G	G	←-R	←-R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	←-R	←-R	←-R	R	R	←-G	←-G	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
5 CHANGE	←-R	←-R	←-R	R	R	←-Y	←-Y	G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	←-R	←-R	←-R	G	G	←-R	←-R	G	G	R	R	R	R	DW	DW	DW	DW	WK	WK	WK
PED CLEARANCE	←-R	←-R	←-R	G	G	←-R	←-R	G	G	R	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW
2 AND 6 CHANGE	←-R	←-R	←-R	Y	Y	←-R	←-R	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	←-R	←-R	←-R	R	R	←-R	←-R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
4 ALT AND 8 ALT	←-R	←-R	←-R	R	R	←-R	←-R	R	R	G	G	G	G	WK	WK	WK	WK	DW	DW	DW
PED CLEARANCE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW
4 ALT & 8 ALT CHANGE	←-R	←-R	←-R	R	R	←-R	←-R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A,B,C,D } 2 CONDUCTOR ELECTRICAL CABLE
E,F,G,H } (NO. 14 AWG)
x } STRANDED BARE COPPER GROUND WIRE
(NO. 6 AWG)

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 119 (GREAT SENECA HIGHWAY) AT
CLOPPER MILL DRIVE/RICHTER FARM ROAD
GERMANTOWN, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 03/2013 CONTRACT NO. XY1515185

DESIGNED BY DM COUNTY MONTGOMERY
DRAWN BY DM LOGMILE 15011905.24
CHECKED BY RM TMS NO. L803
F.A.P. NO. TOD NO.

TS NO. 4109-C DRAWING GI-1 OF 1 SHEET NO. 3 OF 3

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FILE: P:\09-002 TEDD\Task 107 MD 119 Signals\Drawings\CADD\Working\MD119@ClopperMill\pGN-P003_MD119@ClopperMill.dgn